

SYSTEM AND METHOD FOR MATCHING STORAGE DEVICE QUEUE DEPTH
TO SERVER COMMAND QUEUE DEPTH

ABSTRACT OF THE DISCLOSURE

A system and method for correlating the command queue depth of the servers of a storage area network to the command queue depth of the storage controllers of the computer network are provided. For each storage controller, the servers are identified that have logical ownership of the logical storage units managed by each respective storage controller. For each storage controller, the execution throttle levels for those servers that have logical ownership over logical storage units of the storage controller are verified according to rules governing the command throughput of the servers and the storage controllers. If, for any of the storage controllers of the network, the summed execution throttle level exceeds the command queue depth of the storage controller, the execution throttle level of one or more of the servers of the network is adjusted to insure that the potential command throughput of the servers of the network conforms to the standards established for governing the relation of command throughput between servers and storage controllers.